

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and the
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

REGULATORY DIVISION
Refer to: P/N # 2003-1N-043-P

28 February 2003

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

MR. TOWNSEND P. CLARKSON
KIAWAH RIVER PLANTATION, LP
KIAWAH RESORT ASSOCIATES, LP
C/O MR. ROBERT FOLK
4964 WHITE HALL ROAD
GREEN POND, SOUTH CAROLINA 29446

for a permit to excavate and place fill material in waters of the United States adjacent to an

UNNAMED TRIBUTARY OF THE KIAWAH RIVER

at 2602 Mullet Hall Road, Johns Island, South Carolina in Charleston County (Latitude – 32.63035 N, Longitude – 80.10587 E).

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, MARCH 31, 2003

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of constructing improvements to 7 existing tidal impoundments that total approximately 120 acres. According to the applicant, these impoundments experience "fish kills" during the late summer because of poor water quality conditions and low dissolved oxygen levels. The applicant plans to excavate 16,811 linear feet of new drainage canals within the existing impoundments. In addition, the applicant plans to excavate 465 linear feet of new drainage canals through the tidal marsh. The excavation of the proposed drainage canals will impact a total of 5.0 acres of waters of the United States.

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Each of the new drainage canals will be excavated to a depth of -1.0 MSL in order to allow for tidal flow through the impoundments on a regular basis. In addition, the applicant has proposed to install 3 new wooden rice field trunks and 8 new wooden spillway boxes. The bottom elevation of these structures will also be at a height of -1.0 MSL. The purpose of the excavation and installing the new rice field trunks and new spillway boxes is to provide a pathway for tidal flow through the existing impoundments to facilitate the exchange of water.

The applicant has not specified the method of excavation that will be used to construct the new drainage canals. However, they have stated that there will be no stockpiling of material within waters of the United States and that all excavated material will be disposed in uplands. The applicant has proposed to mitigate for impacts associated with the excavation of tidal marsh by filling in 9 existing potholes that are located in the high marsh adjacent to the referenced property. The applicant plans to place fill material in 0.26 acres of waters of the United States to reestablish natural ground elevations in order to enhance the natural regeneration of native species. According to the applicant, the purpose of the proposed work is to increase circulation of tidal water within the existing impoundments and to alleviate poor water quality conditions.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 5.0 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended), the District Engineer has consulted the most recently available information and has determined that the bald eagle (*Haliaeetus leucocephalus*) a Federally threatened species is present in the vicinity of the project. However, it has been determined that the project is not likely to adversely affect this species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public

28 February 2003

notice serves as a request for written concurrence from the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service on this determination.

The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently unknown archaeological, scientific, prehistorical, or historical data may be lost or destroyed by the work to be accomplished under the requested permit.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

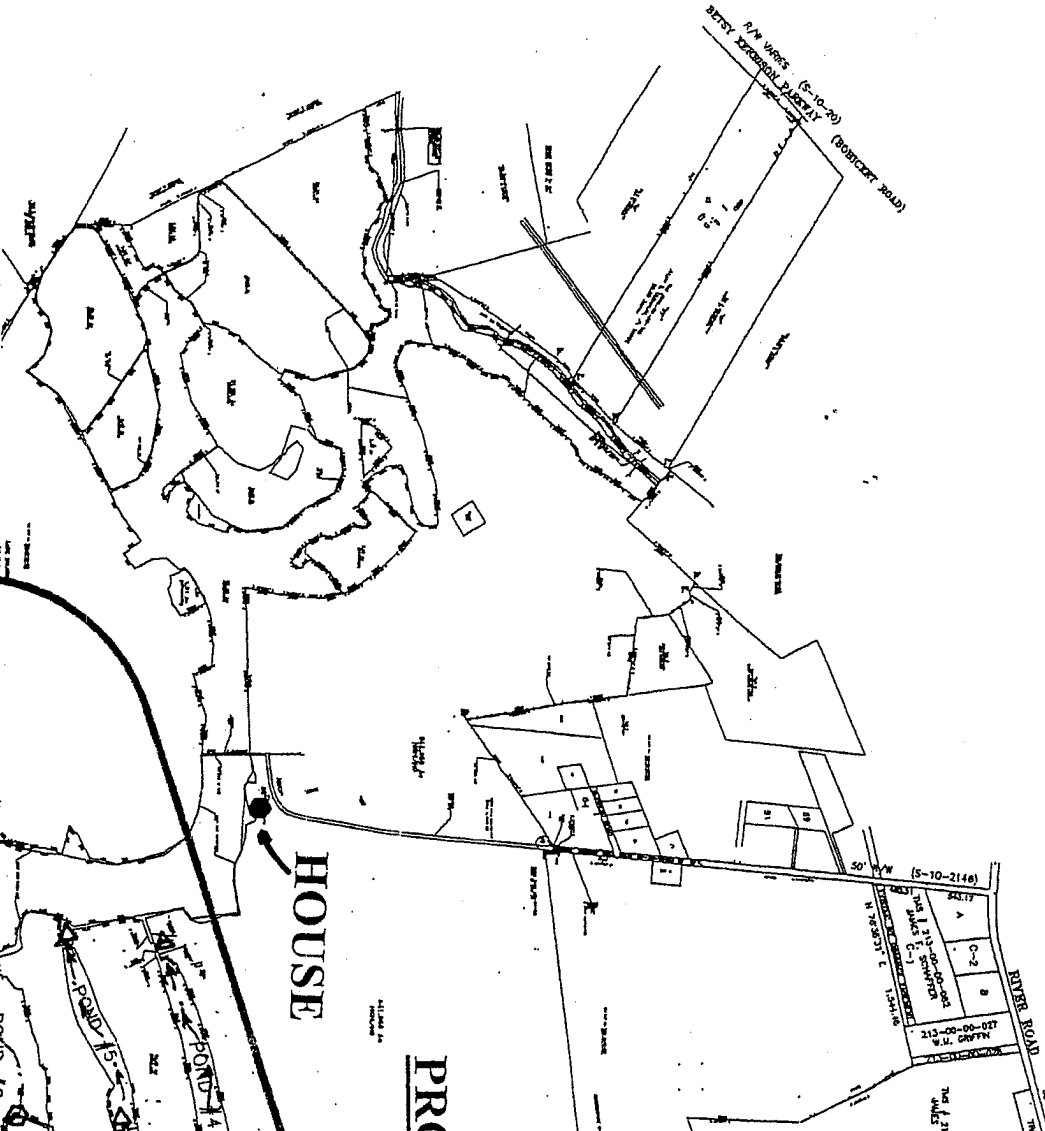
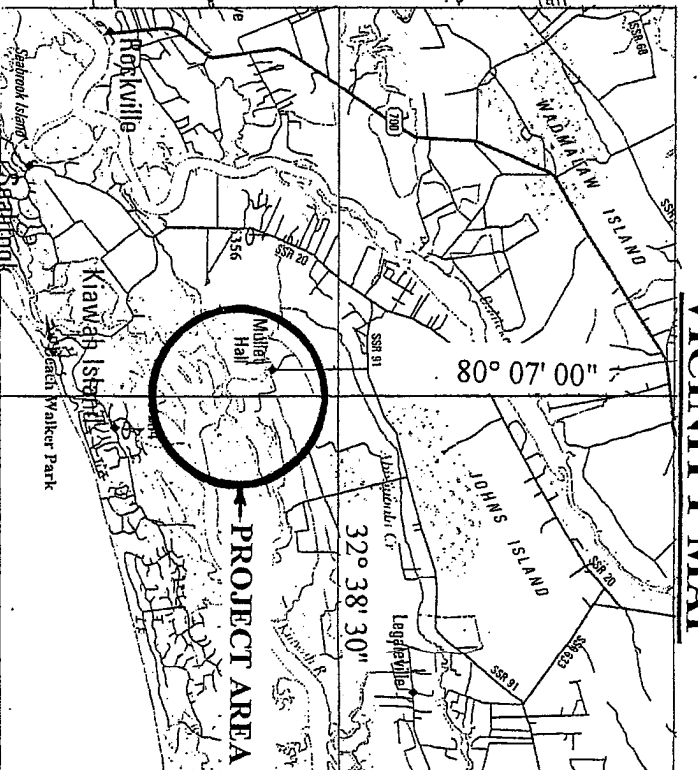
If there are any questions concerning this public notice, please contact me at 843-329-8044 or toll free at 1-866-329-8187.



Nathaniel Ball
Project Manager
Regulatory Division
U.S. Army Corps of Engineers

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.

VICINITY MAP



LEGEND

Proposed Ditch

Proposed Trunk; PT1, PT2

Proposed Spillway Box; PS1, PS2,...

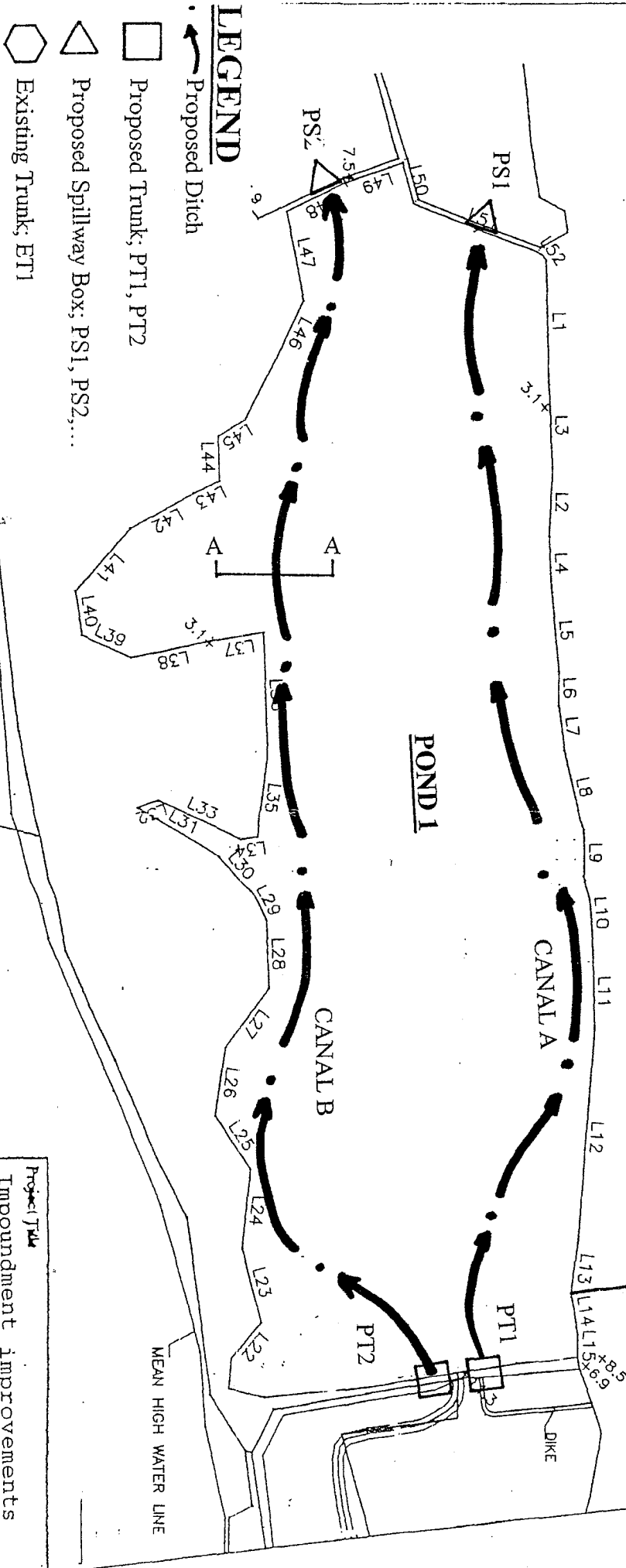
Proposed Trunk; PT1

LOCATION MAP
 -NTS-

Project Title	Reviewed	Date
Impoundment improvements		
Project Location		
Mullet Hall Plantation		
Applicant: Kiawah River Plantation, LP	Authorized Agent	
Kiawah Resort Associates, LP	Robert Folk	
Drawing Scale	NTS	Date 1-27-2003

NUMBER	DIRECTION	DISTANCE	NUMBER	DIRECTION	DISTANCE	NUMBER	DIRECTION	DISTANCE
L1	S 88°32'36" W	331.42'	L14	N 80°51'09" E	117.86'	L28	N 87°48'27" E	173.98'
L2	N 87°13'01" W	182.61'	L15	S 88°08'09" E	58.40'	L29	N 64°55'52" E	87.94'
L3	S 88°10'18" W	224.46'	L16	S 5°41'09" E	168.85'	L30	N 48°54'34" E	122.68'
L4	S 87°21'44" W	145.75'	L17	S 8°59'24" E	162.29'	L31	S 31°02'38" W	252.60'
L5	S 85°31'27" W	213.37'	L18	S 10°05'28" E	252.51'	L32	N 22°04'53" W	60.51'
L6	S 89°55'53" W	91.13'	L19	N 5°43'05" W	269.63'	L33	N 26°03'22" E	244.42'
L7	S 83°12'36" W	123.40'	L20	N 13°02'11" E	101.65'	L34	S 7°08'27" E	48.70'
L8	S 77°19'39" W	227.14'	L21	N 84°15'39" W	84.49'	L35	S 82°03'11" E	222.15'
L9	N 89°53'38" W	125.15'	L22	N 49°37'17" W	124.01'	L36	N 88°21'35" E	340.02'
L10	S 86°51'09" W	196.47'	L23	S 76°21'11" W	215.18'	L37	S 8°52'11" E	145.34'
L11	S 89°02'10" W	205.21'	L24	N 83°35'13" W	223.03'	L38	S 12°00'37" E	222.38'
L12	N 85°25'25" W	582.59'	L25	N 55°37'09" E	172.42'	L39	S 24°27'51" W	143.61'
L13	S 81°44'40" E	143.55'	L26	S 81°25'37" E	185.18'	L40	S 81°39'54" W	120.89'

CHARLESTON COUNTY PARK AND
RECREATION COMMISSION
S 07°07'56" E
1615.31



DATE: NOVEMBER 11, 2002 SCALE: 1" = 400'

Revision Date

Project Title
Impoundment improvements

Project Location
Mullet Hall Plantation

Approved By
Kiwah Resort Associates, LP

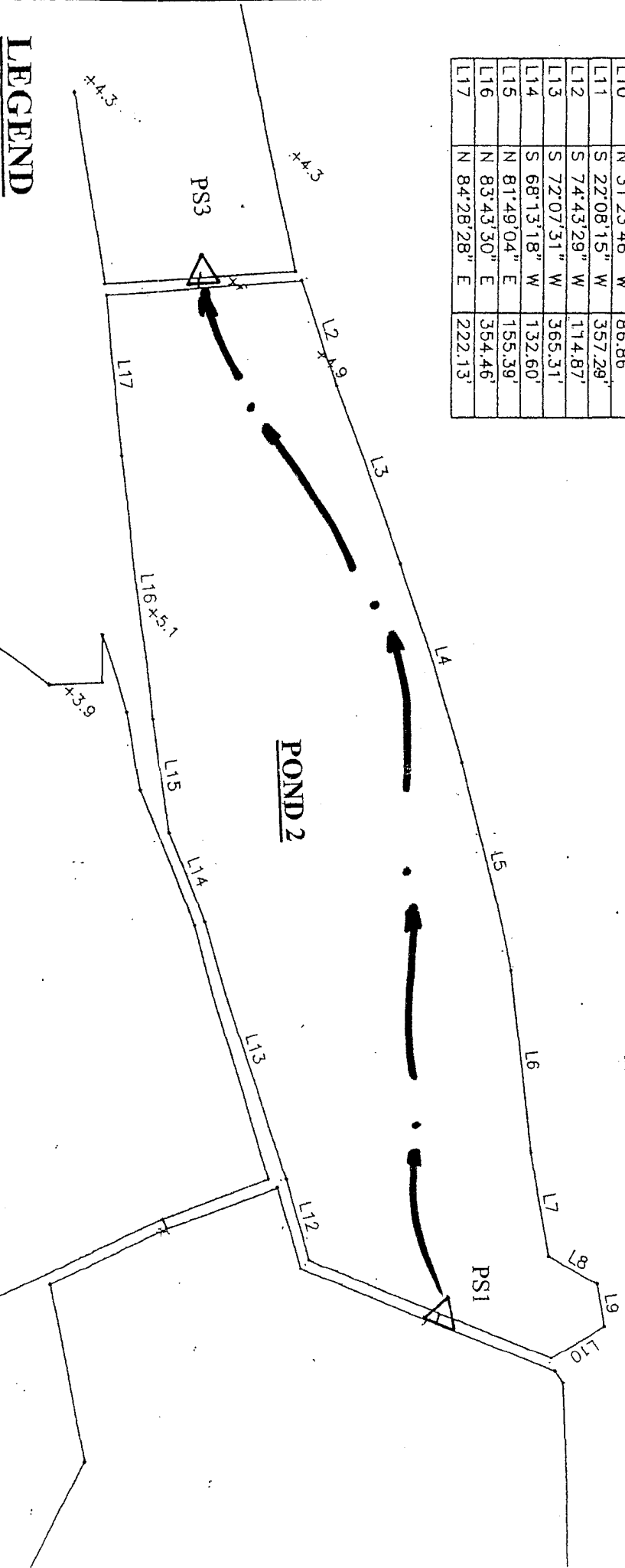
Authorized Agent
Robert Folk

Drawing Scale 1"=400'

Date 1-27-2005

NUMBER	DIRECTION	DISTANCE
L1	S 4°05'03" E	270.47'
L2	S 71°09'08" W	151.74'
L3	S 69°39'34" W	251.53'
L4	S 73°32'01" W	281.63'
L5	S 76°20'15" W	289.69'
L6	S 83°56'59" W	252.47'
L7	S 80°47'42" W	142.58'
L8	S 29°15'28" W	77.23'
L9	S 82°05'53" W	58.78'
L10	N 31°23'46" W	86.86'
L11	S 22°08'15" W	357.29'
L12	S 74°43'29" W	114.87'
L13	S 72°07'31" W	365.31'
L14	S 68°13'18" W	132.60'
L15	N 81°49'04" E	155.39'
L16	N 83°43'30" E	354.46'
L17	N 84°28'28" E	222.13'

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.



LEGEND

- Proposed Ditch
- Proposed Trunk; PT1, PT2
- Proposed Spillway Box; PS1, PS2,...
- Existing Trunk; ET1

Project Title	Impoundment improvements		
Project Location	Mullet Hall Plantation		
Applicant	Appalachian River Plantation, LP		
Author	Robert Folk		
Drawing Scale	1" = 200'	Date	1-27-2005
Application #		Sheet	1 of 1

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.

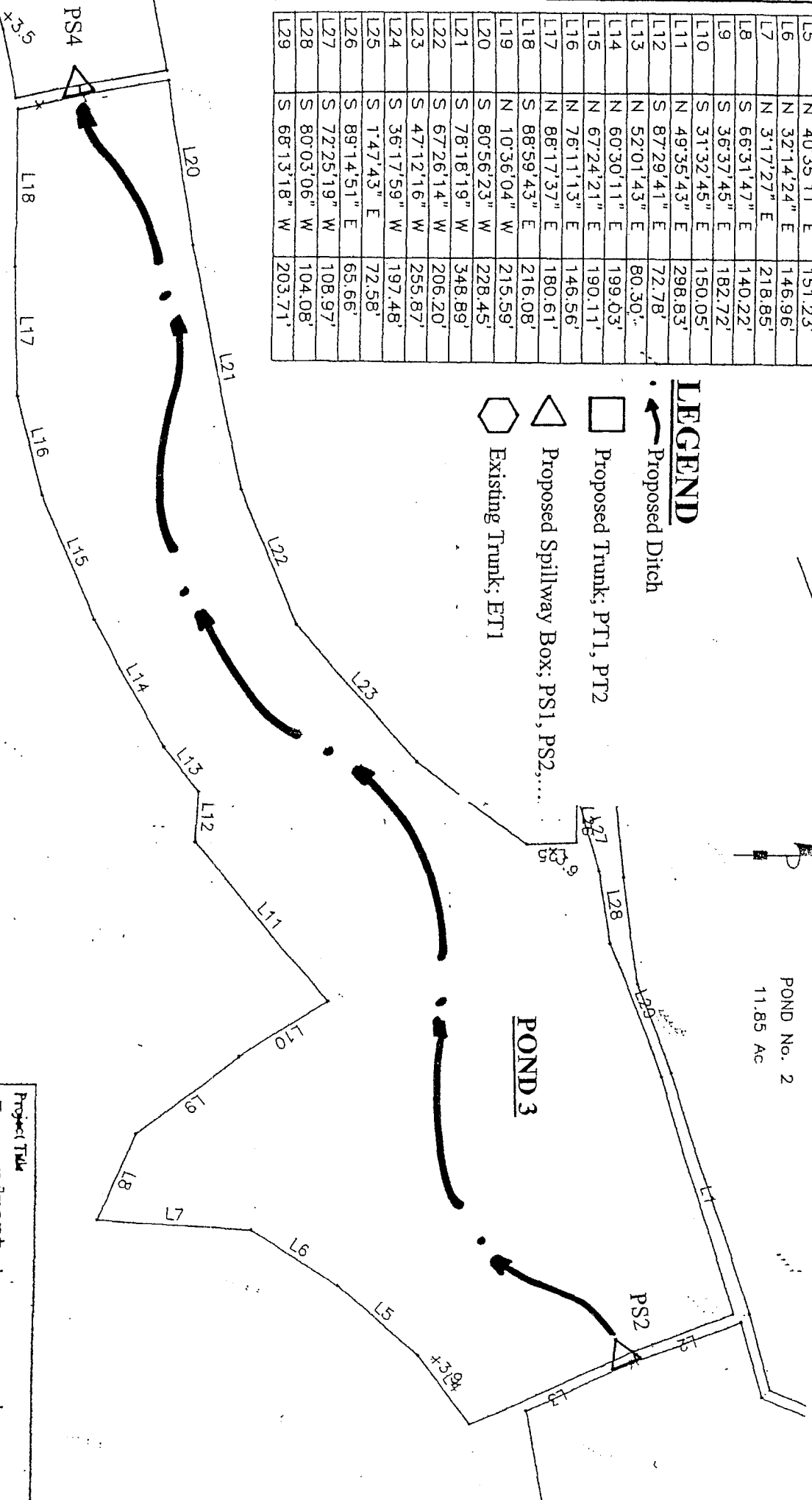
NUMBER	DIRECTION	DISTANCE
L1	S 73°21'04" W	358.43'
L2	S 20°00'03" E	158.25'
L3	S 25°30'38" E	260.79'
L4	N 54°16'26" E	127.39'
L5	N 40°35'11" E	151.23'
L6	N 32°14'24" E	146.96'
L7	N 31°17'27" E	218.85'
L8	S 66°31'47" E	140.22'
L9	S 36°37'45" E	182.72'
L10	S 31°32'45" E	150.05'
L11	N 49°35'43" E	298.83'
L12	S 87°29'41" E	72.78'
L13	N 52°01'43" E	80.30'
L14	N 60°30'11" E	199.03'
L15	N 67°24'21" E	190.11'
L16	N 76°11'13" E	146.56'
L17	N 86°17'37" E	180.61'
L18	S 88°59'43" E	216.08'
L19	N 10°36'04" W	215.59'
L20	S 80°56'23" W	228.45'
L21	S 78°18'19" W	348.89'
L22	S 67°26'14" W	206.20'
L23	S 47°12'16" W	255.87'
L24	S 36°17'59" W	197.48'
L25	S 1°47'43" E	72.58'
L26	S 89°14'51" E	65.66'
L27	S 72°25'19" W	108.97'
L28	S 80°03'06" W	104.08'
L29	S 68°13'18" W	203.71'

LEGEND

- Proposed Ditch
- Proposed Trunk; PT1, PT2
- Proposed Spillway Box; PS1, PS2,...
- Existing Trunk; ET1

POND No. 2
 11.85 Ac

POND 3



POND No. 3
 MULLET HALL
 JOHNS ISLAND
 CHARLESTON COUNTY SOUTH CAROLINA



DATE: NOVEMBER 11, 2002 SCALE: 1" = 200'

File Name: C:\PROJECT\020356S\020356S.DWG

Project Title	Impoundment improvements
Project Location	Mullet Hall Plantation
Applicant	Kiawah River Plantation, LP
Applicant	Kiawah Resort Associates, LP
Reviewed By	Robert Folk
Date	11-1-2003
Drawn By	Robert Folk
Scale	1" = 200'

L2	N 3'32.18" W	263.97'
L3	S 80'59.49" W	257.35'
L4	S 79'38.52" W	527.37'
L5	S 78'20.20" W	524.02'
L6	S 72'29.08" W	333.42'
L7	S 72'13.38" W	310.47'
L8	S 68'38.34" W	87.35'
L9	S 21'52.27" E	26.16'
L10	N 69'48.59" E	88.10'
L11	S 20'11.56" E	82.92'
L12	S 36'37.21" W	62.09'
L13	S 61'12.20" W	127.31'
L14	S 67'13.53" W	302.49'
L15	S 72'19.36" W	403.97'
L16	S 76'46.05" W	681.93'

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.

GRAVE
SITE

SEE
ENLARGEMENT A



POND No. 4
 MULLET HALL
 JOHNS ISLAND
 CHARLESTON COUNTY SOUTH CAROLINA

DATE: NOVEMBER 11, 2002 SCALE: 1" = 200'

File Name: C:\PROJECT\020356S\020356S.DWG

POND 4

LEGEND

- Proposed Ditch
- Proposed Trunk; PT1, PT2
- Proposed Spillway Box; PS1, PS2,....
- Existing Trunk; ET1

POND

Revision Date

Project Title
 Impoundment Improvements

Project Location
 Mullet Hall Plantation

Applicant
 Kiawah River Plantation, Kiawah Resort Associates, LP

Authorized Agent
 Robert Folk

Drawing Scale
 1" = 200'

Application #
 DK 1-27-2002

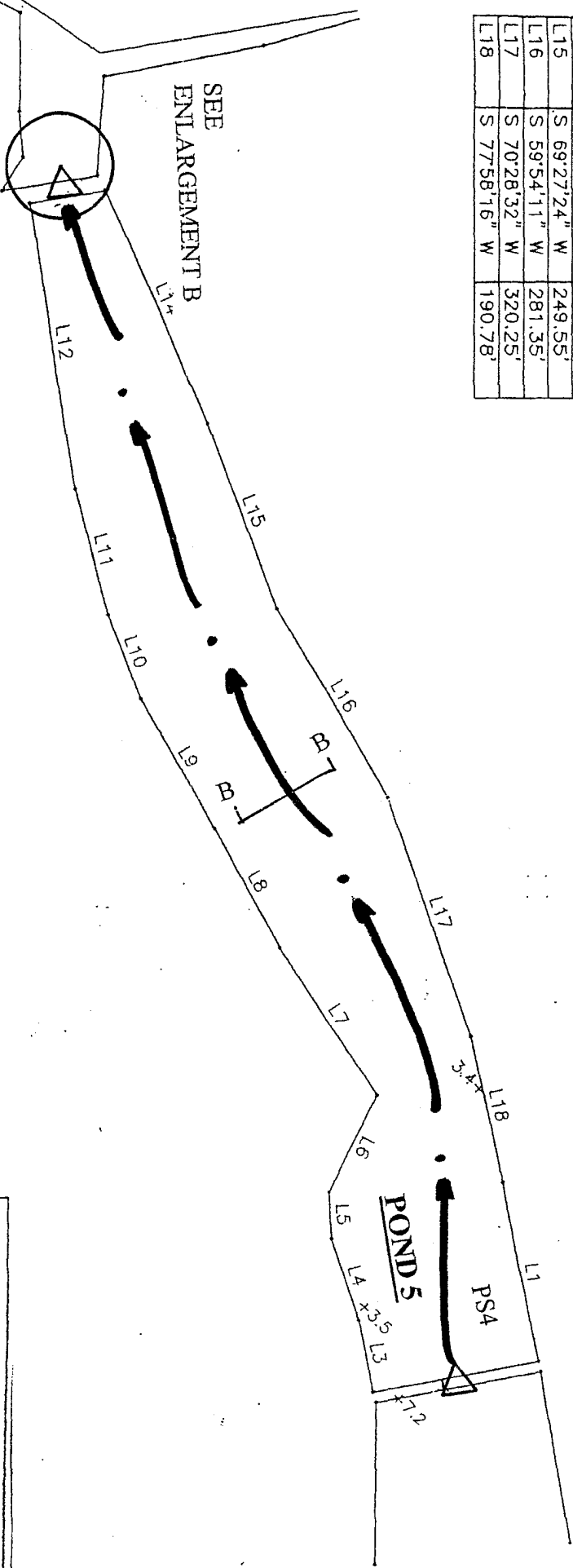
Sheet
 5 of 15

NUMBER	DIRECTION	DISTANCE
L1	S 79°29'09" W	237.65'
L2	N 10°36'04" W	217.05'
L3	S 79°25'14" W	94.98'
L4	S 72°57'14" W	114.30'
L5	S 87°33'54" W	58.42'
L6	N 63°17'02" W	136.78'
L7	N 56°45'01" E	226.58'
L8	N 60°42'09" E	172.90'
L9	N 59°40'31" E	192.33'
L10	N 69°51'12" E	115.71'
L11	N 75°40'16" E	163.96'
L12	N 81°06'34" E	366.11'
L13	S 8°27'49" E	96.76'
L14	S 65°31'45" W	322.79'
L15	S 69°27'24" W	249.55'
L16	S 59°54'11" W	281.35'
L17	S 70°28'32" W	320.25'
L18	S 77°58'16" W	190.78'

REFERENCE:
PLAT BY A.H. SCHWACKE III
DATED FEBRUARY 4, 1994
BOOK EA PAGE 35
RMC CHAS. CO.

34.20 AC
HIGHLAND

POND No. 4



LEGEND

Proposed Ditch

Proposed Trunk; PT1, PT2

Proposed Spillway Box; PS1, PS2,...

Existing Trunk; ET1

POND No. 5

MULLET HALL
JOHNS ISLAND

CHARLESTON COUNTY SOUTH C.

DATE: NOVEMBER 11, 2002 SCALE:

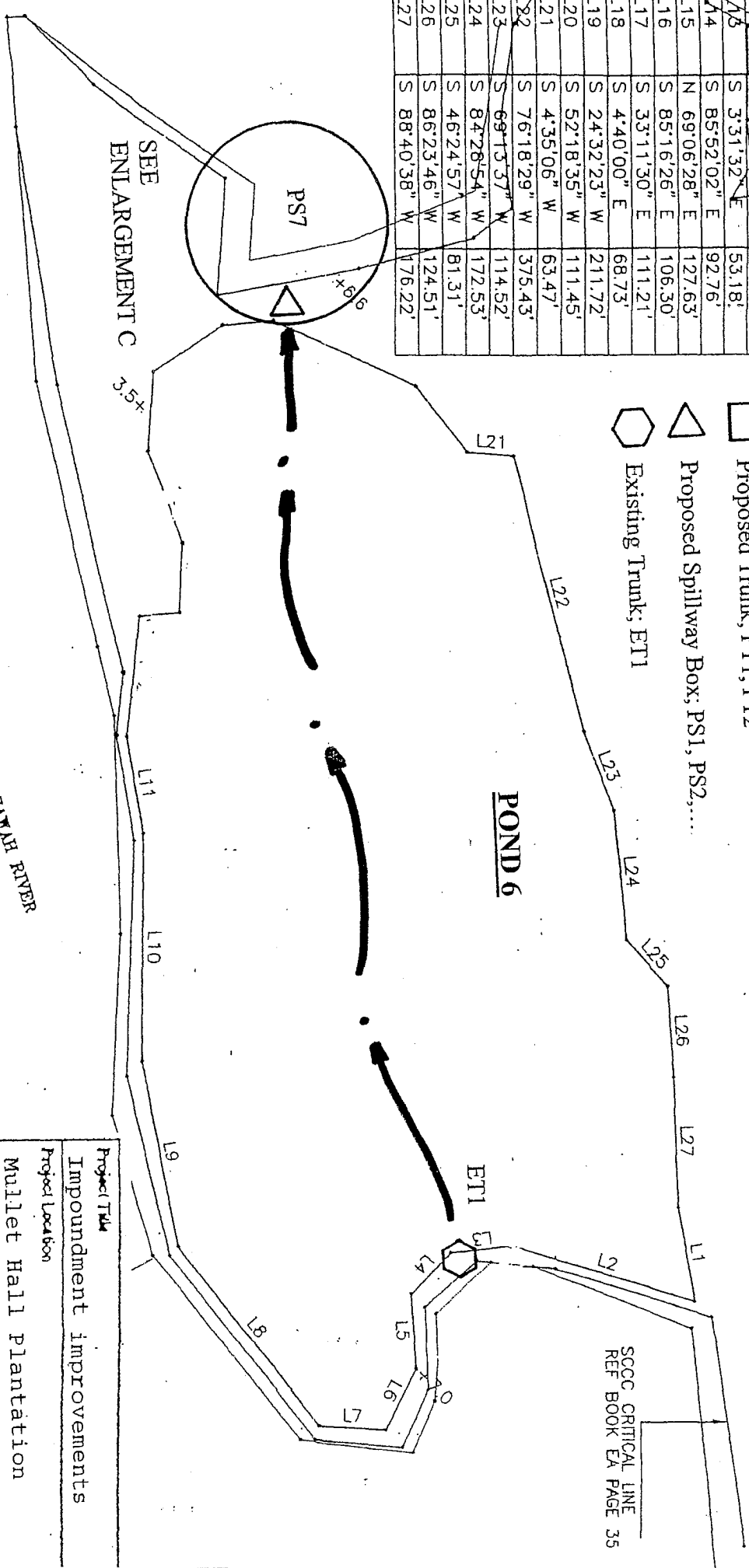
Project Title	Impoundment improvements
Project Location	Mullet Hall Plantation
Applicant	Kiawah River Plantation, LP
Authorized Agent	Kiawah Resort Associates, LP
Author	Robert Folk
Drawing Scale	1" = 200'
Date	1-27-2002
Application #	2002-11-1

NUMBER	DIRECTION	DISTANCE
L1	S 80°59'42" W	133.00'
L2	N 17°32'04" E	257.77'
L3	N 6°56'18" W	83.70'
L4	N 46°33'06" W	78.72'
L5	S 87°13'31" W	103.34'
L6	N 62°37'12" W	90.07'
L7	N 3°24'07" E	91.68'
L8	N 52°22'26" E	307.16'
L9	N 80°00'02" E	259.56'
L10	S 89°32'54" E	302.01'
L11	N 80°51'31" E	133.15'
L12	S 83°23'04" E	164.13'
L13	S 3°31'32" E	53.18'
L14	S 85°52'02" E	92.76'
L15	N 69°06'28" E	127.63'
L16	S 85°16'26" E	106.30'
L17	S 33°11'30" E	111.21'
L18	S 4°40'00" E	68.73'
L19	S 24°32'23" W	211.72'
L20	S 52°18'35" W	111.45'
L21	S 4°35'06" W	63.47'
L22	S 76°18'29" W	375.43'
L23	S 69°13'37" W	114.52'
L24	S 84°28'54" W	172.53'
L25	S 46°24'57" W	81.31'
L26	S 86°23'46" W	124.51'
L27	S 88°40'38" W	176.22'

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.

LEGEND

- Proposed Ditch
- Proposed Trunk; PT1, PT2
- Proposed Spillway Box; PS1, PS2,....
- Existing Trunk; ET1



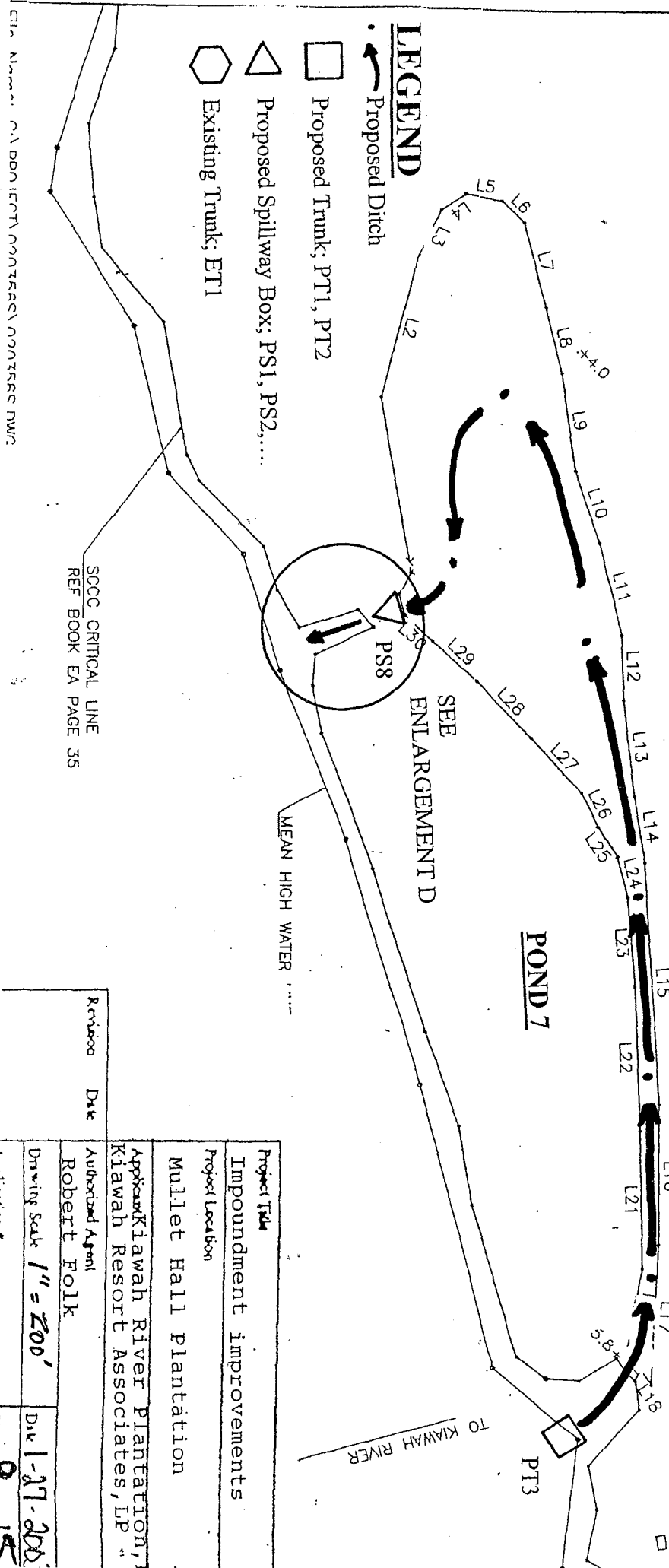
SALT MARSHES OF KIAWAH RIVER

Project Title	Impoundment Improvements		
Project Location	Mullet Hall Plantation		
Applicant	Kiaawah River Plantation, Kiaawah Resort Associates, LP		
Authorized Agent	Robert Folk		
Revision	Date	Drawn Scale	Disc
		1" = 200'	1-27-200

NUMBER	DIRECTION	DISTANCE
L1	S 80°06'09" W	246.85'
L2	S 75°26'07" E	199.40'
L3	S 63°27'01" E	69.04'
L4	S 33°42'28" E	41.73'
L5	S 8°45'07" W	50.74'
L6	S 45°01'10" W	43.65'
L7	S 75°04'41" W	119.84'
L8	S 75°23'19" W	91.74'
L9	S 81°52'31" W	136.47'
L10	S 70°55'06" W	106.19'
L11	S 75°58'22" W	127.31'
L12	S 87°30'44" W	88.86'
L13	S 83°17'41" W	132.14'
L14	S 80°08'27" W	90.11'
L15	N 86°00'42" E	332.76'
L16	N 90°00'00" E	192.99'
L17	S 87°11'07" E	190.19'
L18	N 56°40'21" E	28.45'
L19	N 65°13'11" E	37.25'
L20	S 80°15'02" E	102.98'
L21	N 88°49'54" E	189.17'

NUMBER	DIRECTION	DISTANCE
L22	N 87°45'21" E	197.01'
L23	N 84°38'52" E	124.06'
L24	N 74°03'53" E	56.20'
L25	N 55°01'34" E	47.11'
L26	N 63°27'01" E	51.78'
L27	N 46°34'03" E	100.99'
L28	N 45°01'10" E	109.14'
L29	N 41°12'18" E	82.03'
L30	N 42°00'23" E	51.91'
L31	N 74°03'53" E	28.10'
L32	S 63°27'01" E	34.52'

REFERENCE:
 PLAT BY A.H. SCHWACKE III
 DATED FEBRUARY 4, 1994
 BOOK EA PAGE 35
 RMC CHAS. CO.

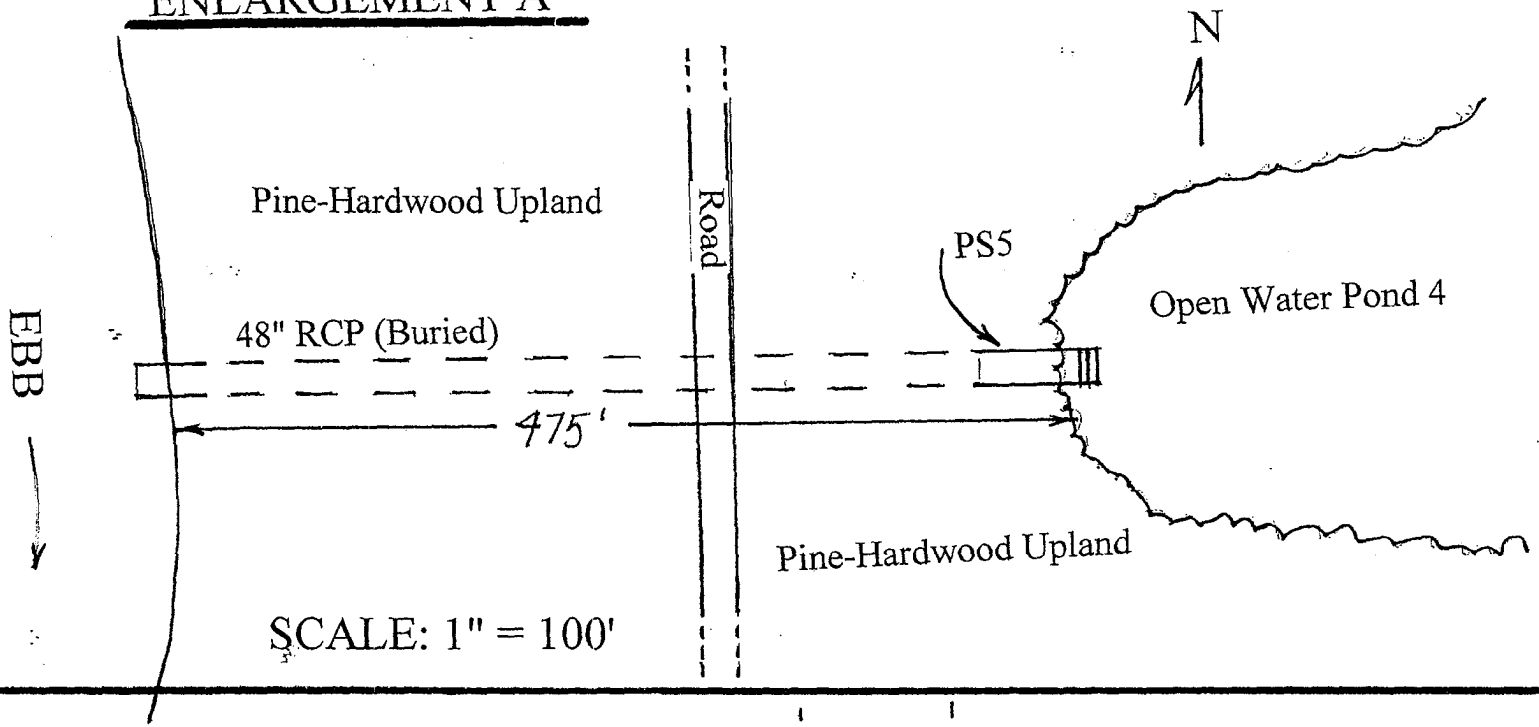


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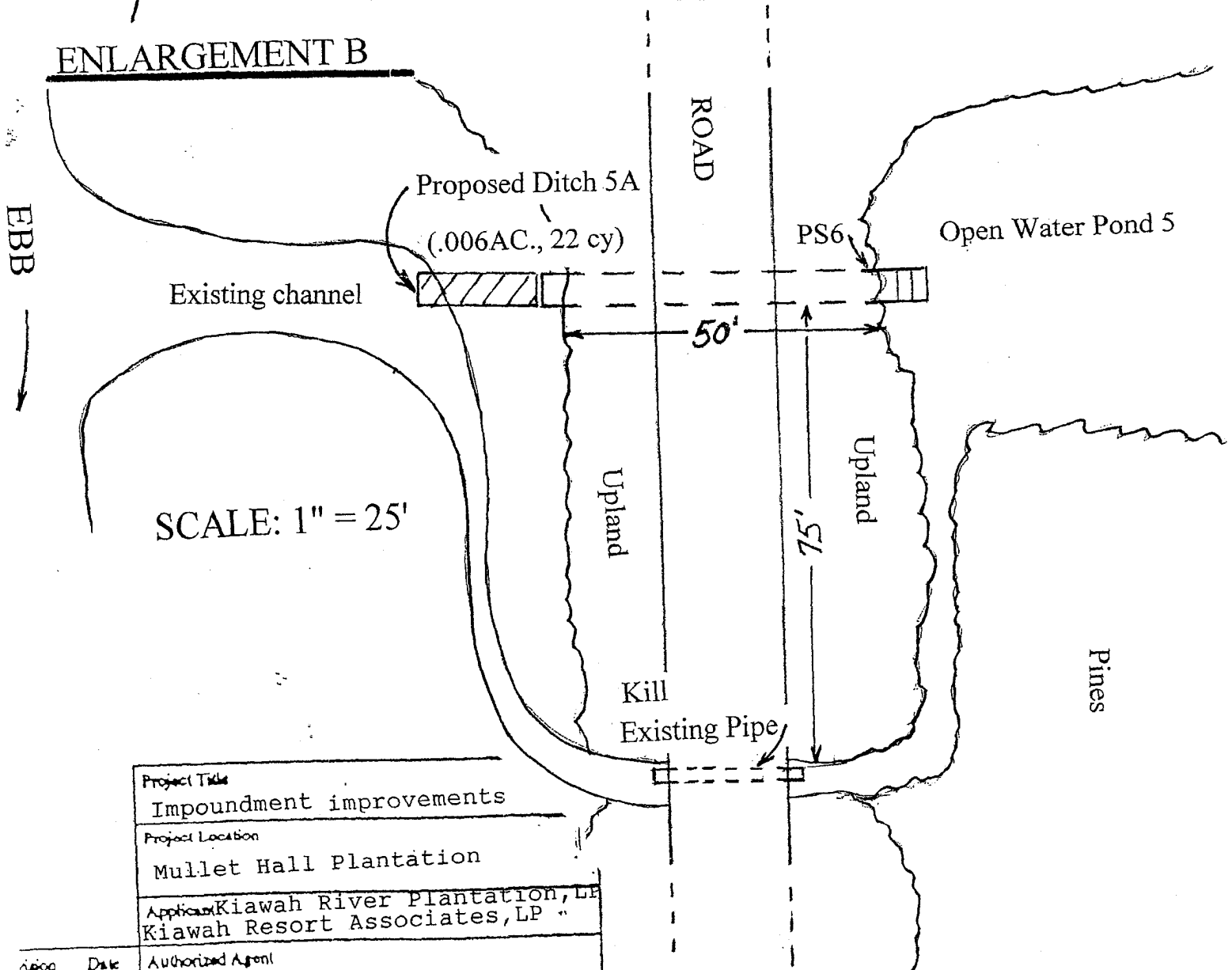
SCCC CRITICAL LINE
 REF BOOK EA PAGE 35

Revision	Date	Author	Appr'd
1		Robert Folk	
Project Title: Impoundment improvements			
Project Location: Mullet Hall Plantation			
Applicant: Kiawah River Plantation, Kiawah Resort Associates, LP			
Drawing Scale: 1" = 200'		Date: 1-27-200	

ENLARGEMENT A

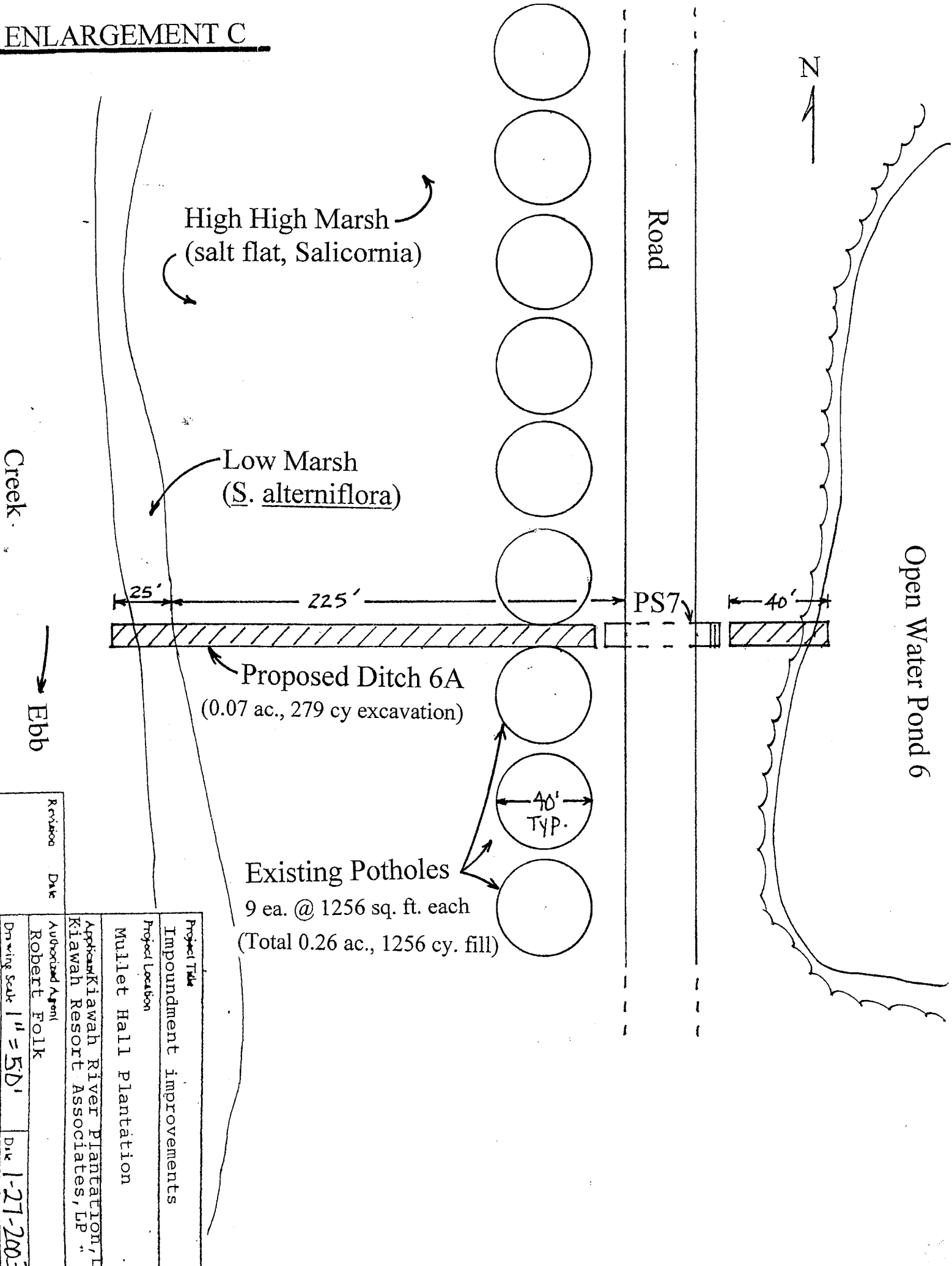


ENLARGEMENT B



Project Title	
Impoundment improvements	
Project Location	
Mullet Hall Plantation	
Applicant	
Kiawah River Plantation, LP Kiawah Resort Associates, LP	
Author	Authorized Agent
Robert Folk	
Drawing Scale	AS SHOWN
Date	1-27-2003
Sheet	9 of 15

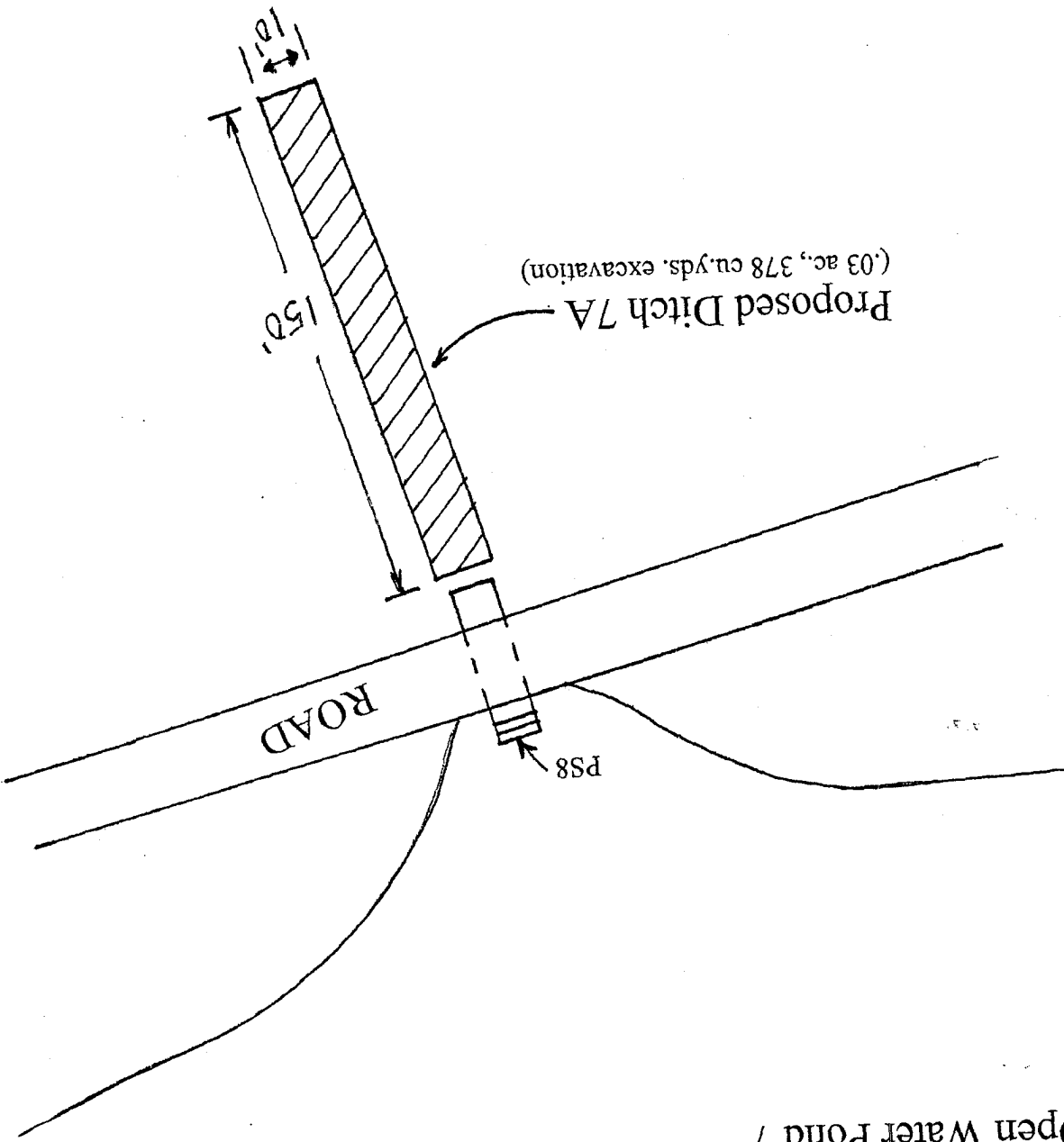
ENLARGEMENT C



Revision	Date
1	
Project Title	
Impoundment improvements	
Project Location	
Mullet Hall plantation	
Approved by Kiawah River Plantation, L	
Kiawah Resort Associates, LP	
Authorized Agent	
Robert Folk	
Drawing Scale 1" = 50'	Date 1-27-2005

ENLARGEMENT D

Open Water Pond 7

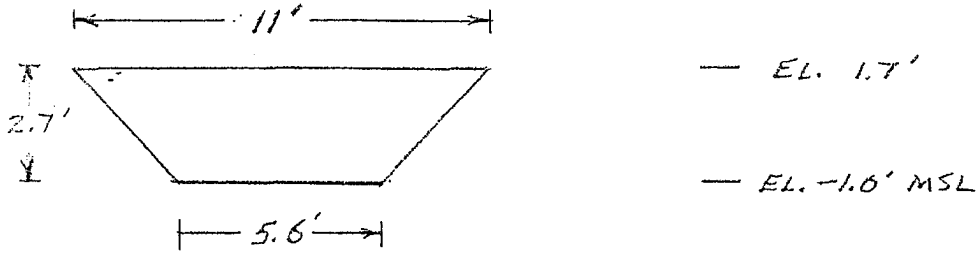


Project Title	Impoundment improvements
Project Location	Mullet Hall Plantation
Applicant	Kiawah River Plantation, Kiawah Resort Associates, LP
Authorized Agent	Robert Folk
Revision	Date
Drawing Scale	1" = 50'
	Dec 1-27-2000

DITCH CROSS SECTIONS

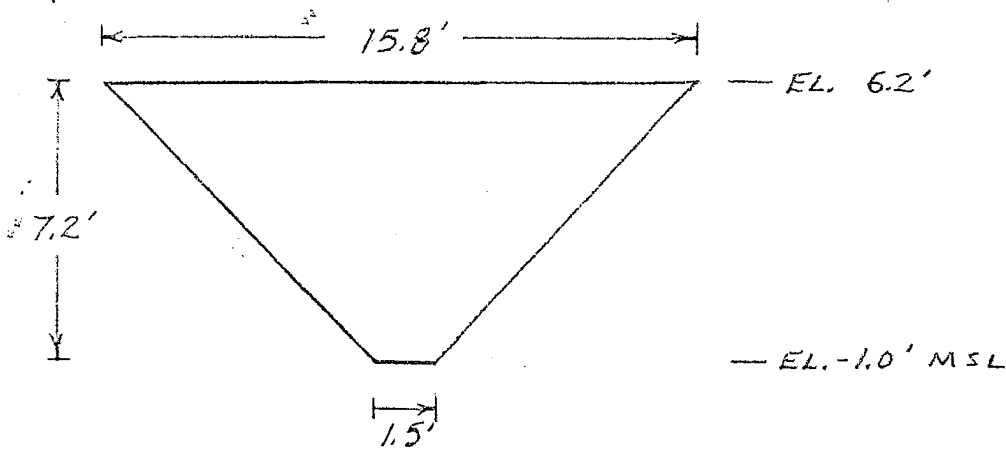
SECTION A-A

Minimum Ditch Depth - Pond 1, Canal B



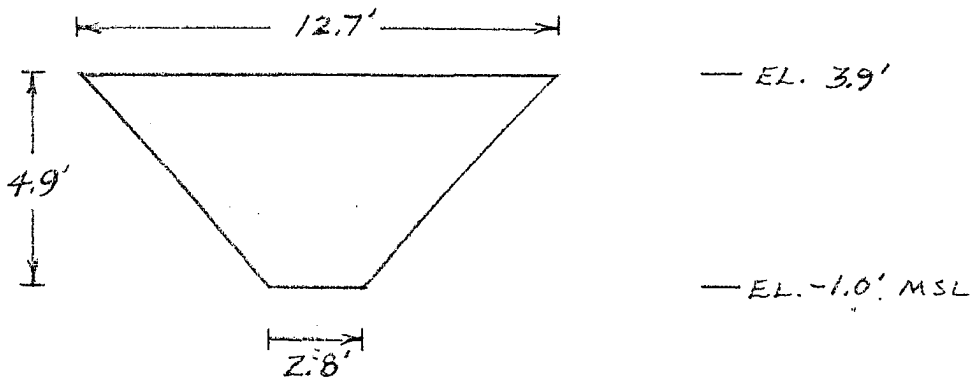
SECTION B-B

Maximum Ditch Depth - Pond 5



TYPICAL SECTION

Average Ditch Depth



Project Title		Impoundment improvements	
Project Location		Mullet Hall Plantation	
Applicant		Kiawah River Plantation, LP Kiawah Resort Associates, LP	
Revision	Date	Authorized Agent Robert Folk	
Drawing Scale		1"=5'	Date 1-27-2003

SUMMARY OF DITCH SPECIFICATIONS & IMPACTS

DITCH

SPECIFICATIONS	1A	1B	2	3	4	5	5A	6	6A	7	7A	TOTAL/AVE.
Length (L.F.)	3080	3480	1431	2160	1998	1600	25	1280	290	1782	150	17,276
Top width (Ave.ft.)	11	11	10.7	13.5	14.6	15.8	10	11.9	10	15.2	10	12.7
Bottom width (Ave. ft.)	4.4	5.6	1.5	1.5	1.5	1.5	2	1.5	1	1.5	1	2.8
Depth (Ave. ft.)	3.3	2.7	4.6	6.0	6.5	7.2	4	5.2	5.2	6.8	6.8	4.9
Acreage (Acres)	.78	.88	.35	.67	.67	.58	.006	.35	.07	.62	.03	5.006
Volume (Cu. yds.)	2900	2900	1500	3600	3900	3700	22	1650	279	3700	378	24,529

IMPOUNDMENT MANAGEMENT PLAN

The brackish impoundments on Mullet Hall Plantation have no flow-through capability, i.e., water enters and exits through one water control structure. Consequently, during the late summer, these impoundments have experienced fish kills due to low dissolved oxygen levels. Although called a "fish kill", other species suffer the consequences of inadequate oxygen levels in the water; the multitude of dead fish are simply the most noticeable victims.

In an attempt to rectify this poor water quality situation, the owners have asked that an improved design be devised for water management within the ponds. In response, Folk Land Management, Inc. has designed the proposed improvements.

The objective is to enhance water flow through the ponds by installing larger and more functional water control structures (rice field trunks and wooden spillway boxes) and by digging ditches that will facilitate water flow through the ponds. The ditches are designed to be able to move water even on average tides during the month. All spoil from the ditches will be placed in existing *upland dug borrow pits* or on high ground.

In addition to being able to move water through the ponds routinely, the water levels will be manipulated regularly to enhance feeding opportunities for wading and shore birds. The ditch system and improved water control structures will allow periodic water movement that will benefit the fishery within the pond significantly. Oxygen levels will be maintained and fish kills should be able to be avoided.

In summary, rather than the dead end ponds that now exist throughout Mullet Hall Plantation, the proposed improvements will create a flow through system that will enhance water quality, and consequently, the environment for many fish and wildlife species. There will be significant ecological benefits within the impoundments and the adjacent estuary will not continue to be subjected to periodic dumping of poor quality water and dead marine organisms.

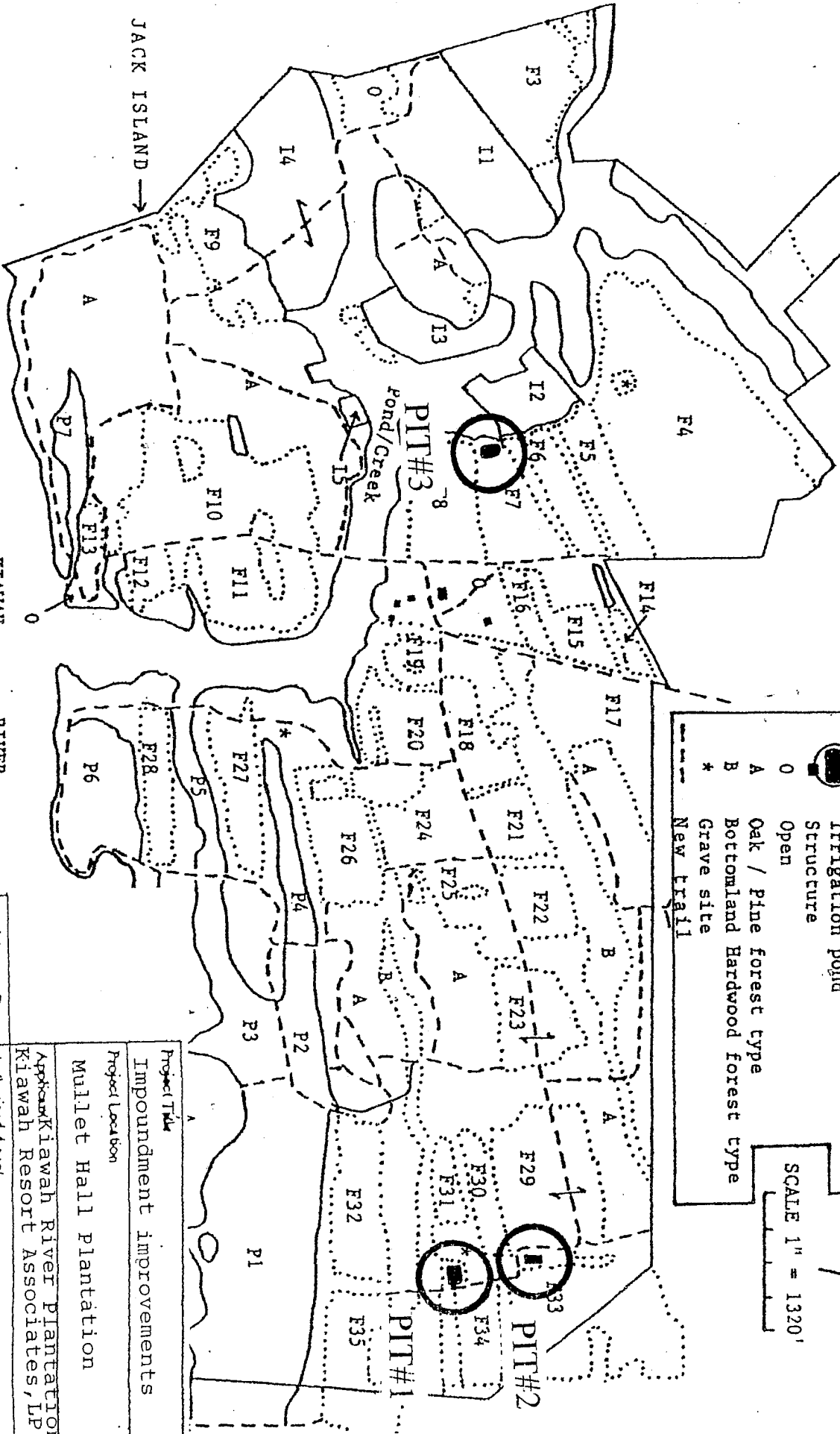
Project Title Impoundment improvements	
Project Location Mullet Hall Plantation	
Applicant Kiawah River Plantation, LP Kiawah Resort Associates, LP	
Revision	Date Authorized Agent Robert Folk
Drawing Scale	Date 1-27-2003

BORROW PIT LOCATIONS

Shricker
F1
PIT#4
F2
Mullet Hall Plantation
Johns Island
Charleston Co. S.C.

---	Property line / water boundary
---	Dirt Rd.
---	Paved Rd.
---	Timber type / field boundary
---	I2 Impoundment
---	F5 Field
---	P7 Pond
---	Irrigation pond Structure
---	Open
---	A Oak / Pine forest type
---	B Bottomland Hardwood forest type
*	Grave site
---	New trail

SCALE 1" = 1320'



Project Title	Impoundment improvements		
Project Location	Mullet Hall Plantation		
Prepared By	Appalachian River Plantation, Inc.		
Reviewed By	Kiawah Resort Associates, LP		
Approved By	Robert Folk		
Drawing Scale	1" = 1320'	Date	1-27-2001

11. The overall project consists of water control structure installation and replacement with these structures being connected with new ditches and filling 4 isolated freshwater wetlands.

Specifically:

Project #1 consists of installing 3 wooden rice field trunks and 8 wooden spillway boxes in brackish ponds on Mullet Hall Plantation. Because of their greater capacity and improved water management capabilities as compared to the existing metal flashboard risers, water movement through the ponds will be significantly improved.

Project #2 consists of digging 17,276 linear feet (5.006 acres, 24,529 cu. yds.) of ditches to facilitate water movement through the ponds. Currently, water does not flow through the ponds, but rather, it enters and exists through the same water control structure. The proposed ditches will allow water circulation on average tides throughout the month. A summary of ditch specifications and impacts is on page 14 of 17.

As mitigation for digging 465 linear feet (.106 ac., 679 cu. yds.) of ditches outside the ponds to connect new water control structures to the adjacent creeks, it is proposed that 9 existing potholes in the high marsh be filled (0.26 ac., 1256 cu. yds.) to reestablish natural ground elevations, and consequently, revegetation by native species.

12. The overall project purpose is to improve water circulation and quality, and thereby, to enhance the aquatic habitat within the brackish ponds on Mullet Hall Plantation. This can be accomplished only by improving water control structures and water movement through the ponds; therefore, the new, larger, and more efficient rice field trunks and wooden spillway boxes are proposed. To allow these structures to function to their capacity and to provide water circulation, a series of ditches is proposed to connect them to the adjacent creeks. Filling of the isolated wetland borrow pits is intended to create uplands and to dispose of spoil from the ditches.

Project Title	
Impoundment improvements	
Project Location	
Mullet Hall Plantation	
Applicant	
Kiawah River Plantation, LP Kiawah Resort Associates, LP	
Revision	Date
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Drawing Scale	Date
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